

Engine & Cooling

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Automotive Technical
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Engine and cooling system

928S4

1986 to 1990

Type		M28/41/42
Capacity (cm ³) / number of cylinders		4957 / 8
Compression ratio / pressure	bar	10.0 / _
Oil pressure	bar	[5.0]
Oil temperature	°C	80 to 100
Valve clearance - inlet	mm	0: Hyd.
Valve clearance - exhaust	mm	0: Hyd.
Firing order		1-3-7-2-6-5-4-8
No 1 cylinder position		FR
Thermostat opening temperature	°C	81 to 85
Radiator cap pressure	bar	1.0

Fuel system

928S4

1986 to 1990

Idle speed - manual [auto]	rpm	675±25
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	0.5 to 1.5
HC @ idle speed [3000 rpm] - see page VI	ppm	≤1200
CO2 @ idle speed [3000 rpm] - see page VI	%	_
O2 @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection		Bosch
Type / ref		LH-Jetronic
Main jet / needle		_
Injection pressure	bar	_
Pump pressure	bar	3.8±0.2
Octane rating	RON	95[E 95 RON]

Ignition system

928S4

1986 to 1990

Type		Computerized
Ignition coil		2x Bosch
Primary resistance	ohms	_
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor		Bosch
Points gap (air gap)	mm	_
Dwell angle	° (%)	_
Condenser capacity	µF	_
Rotation		_
Ignition timing - basic [static	° Crankshaft @ rpm	10±2 BTDC @ 700
V = Vacuum NV = No Vacuum		_
Total ignition advance	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
Centrifugal check.	° Crankshaft @ rpm	Computer control
	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
Vacuum range check	mbar	Computer control
Maximum vacuum advance	° Crankshaft	_
Spark plugs		Bosch/Champion
Type		WR7DC / RN9YCC
Electrode gap	mm	0.80

Electrical system

928S4

1986 to 1990

Battery	V / CC / RC	12 / 72Ah
Alternator voltage / full load current / engine rpm		14.0 / _ / 3000
Starter motor current / voltage - cranking	A / V	_
- locked	A / V	_

Running gear

928S4

1986 to 1990

Brakes -		
Front (min. friction material thickness)	mm	2.0
Rear (min. friction material thickness)	mm	2.0

Tyres		
Saloon	Size	225/50x16: 245/45x16
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	2.5 / 3.0
- Estate / Van	bar	_

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	[+15'±5']
Camber		-30'±10'
Castor		+3°30'±30'
King pin inclination		_

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	[+10'±5'] PW
Camber		-40'±10'

Torque wrench settings

928S4

1986 to 1990

Cylinder head - stage 1	Nm	20 ¹
- stage 2	Nm	50 ¹
Cylinder head - stage 3	Nm	90 ¹
- stage 4	Nm	_
Big-end bearings	Nm	80
Main bearings	Nm	WSM
Clutch cover	Nm	_
Flywheel [driveplate]	Nm	_
Front hubs	Nm	_
Rear hubs	Nm	_
Wheel nuts / bolts	Nm	130
Spark plugs	Nm	30

Capacities

928S4

1986 to 1990

Engine oil & filter	litres	7.5
Gearbox - 4-speed [5-speed]	litres	3.8
Automatic transmission - refill	litres	10.0
Final drive	litres	AT: 3.0
Cooling system	litres	16.0
Fuel tank	litres	86

Notes and Illustrations

¹Gold studs: 20, + 90° + 90°